

Name : \_\_\_\_\_ ( )

27 October 200

Class : P 5



**CATHOLIC HIGH SCHOOL**

**PRIMARY FIVE**

**FINAL-YEAR EXAMINATION 2009**

**MATHEMATICS**

**PAPER 1**

**(BOOKLET A)**

15 questions

20 marks

Total Time for Booklets A and B: 50 min

**INSTRUCTIONS TO CANDIDATES**

Do not open this booklet until you are told to do so.

Follow all instructions carefully.

Shade your answers in the Optical Answer Sheet (OAS) provided.

You are **not** allowed to use a calculator.

Answer all questions.

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval on the Optical Answer Sheet. All diagrams are not drawn to scale. (20 marks)

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1. How many tens are there in 735 000?

- (1) 735
  - (2) 7 350
  - (3) 73 500
  - (4) 735 000
- 

2. The height of a computer monitor is about \_\_\_\_\_.

- (1) 0.03 m
  - (2) 0.3 m
  - (3) 300 cm
  - (4) 3000 cm
- 

3. The number of peaches is  $\frac{2}{7}$  of the number of mangoes.

What is the ratio of the number of mangoes to the total number of fruits?

- (1) 2 : 5
  - (2) 5 : 7
  - (3) 2 : 9
  - (4) 7 : 9
- 

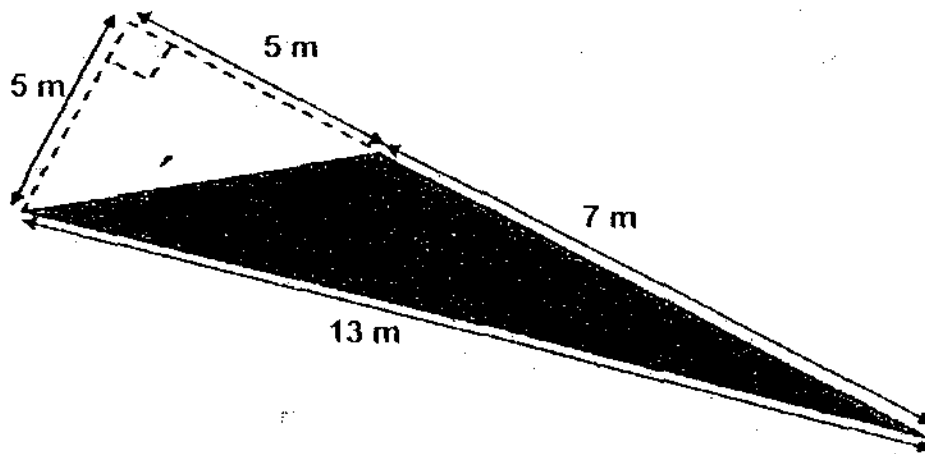
4. Express 240 tenths and 16 thousandths as a decimal.

- (1) 2.416
- (2) 2.4016
- (3) 24.016
- (4) 24.160

5. Evaluate  $69 - (28 + 5) \times 6 \div 3$ .

- (1) 51
  - (2) 72
  - (3) 3
  - (4) 92
- 

6.



Find the area of the shaded triangle.

- (1)  $17.5 \text{ m}^2$
  - (2)  $30 \text{ m}^2$
  - (3)  $32.5 \text{ m}^2$
  - (4)  $45.5 \text{ m}^2$
- 

7. What percentage of 25 km is 1000 m?

- (1) 4%
- (2) 25%
- (3) 40%
- (4) 2500%

(Go to the next page)

8. In a class of 42 pupils, 14 pupils take Higher Chinese. What is the ratio of the number of pupils who take Higher Chinese to the number of pupils who do not take Higher Chinese?

- (1) 1 : 2
- (2) 1 : 3
- (3) 2 : 1
- (4) 3 : 1

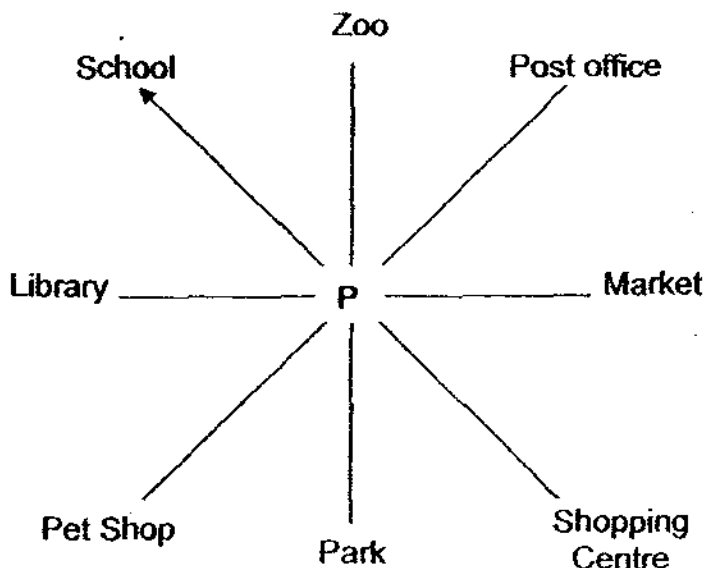
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9. The volume of water in a fish tank was increased from 200 ml to 250 ml. Find the percentage increase in the volume of water.

- (1) 20%
- (2) 25%
- (3) 50%
- (4) 125%

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10. Standing at Point P, Jason was facing the school at first. After he turned  $225^\circ$  in an anti-clockwise direction, which landmark will he be facing?



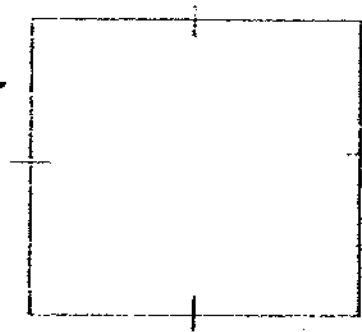
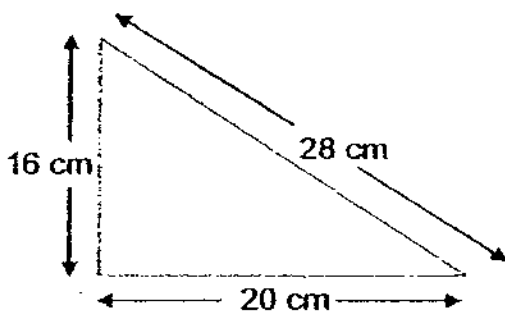
- (1) Park
- (2) Market
- (3) Pet Shop
- (4) Shopping Centre

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11. There are 40% as many cheeseburgers as hamburgers and 20% more fries than the total number of burgers at a stall. What is the ratio of cheeseburgers to fries?

- (1) 1 : 4
- (2) 1 : 3
- (3) 5 : 21
- (4) 25 : 42

12.



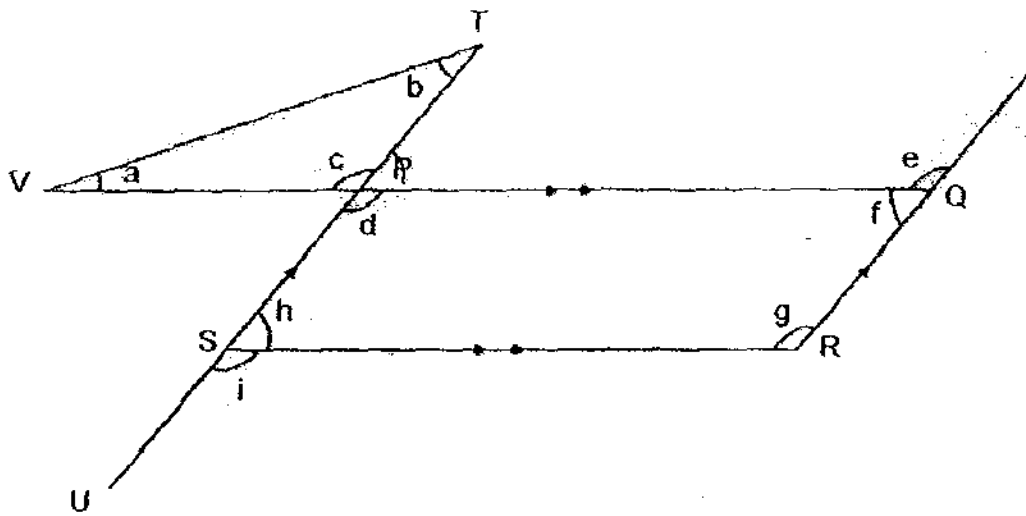
The average perimeter of the triangle and the square is 72 cm. Find the length of the square.

- (1) 2 cm
  - (2) 16 cm
  - (3) 20 cm
  - (4) 36 cm
13. In the Super Flyer, there were  $\frac{3}{4}$  as many Japanese as Koreans. After 280 Koreans left the Super Flyer, there were then  $\frac{2}{5}$  as many Koreans as Japanese. How many Japanese were at the Super Flyer?

- (1) 80
- (2) 100
- (3) 240
- (4) 300

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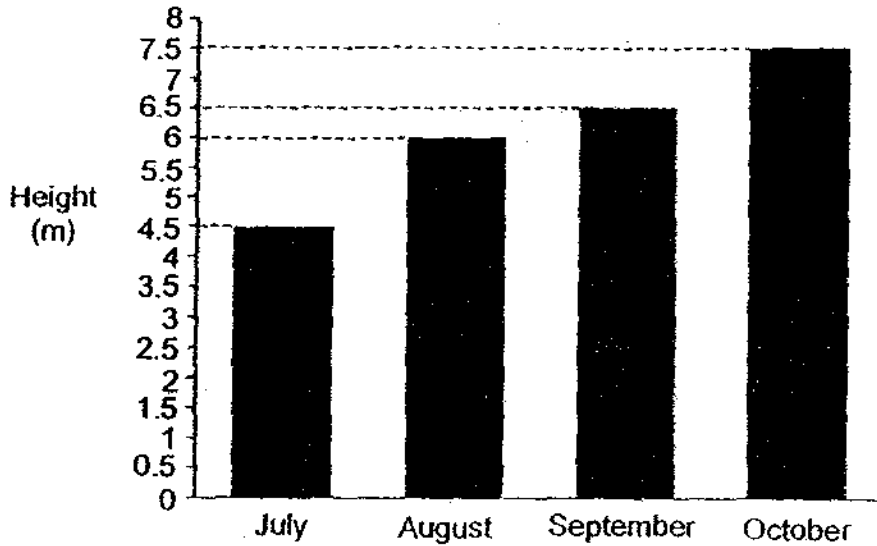
14.



PQRS is a parallelogram. TPU and VPQ are straight lines. Which of the following is true?

- (1)  $\angle c + \angle g = 180^\circ$
- (2)  $\angle a + \angle b = \angle g$
- (3)  $\angle a + \angle b = \angle e$
- (4)  $\angle e = \angle i$

15. The graph shows the height of a plant on the last day of each month from July to October.



In which month was the greatest increase in the plant's height recorded?

- (1) July
- (2) August
- (3) September
- (4) October

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Name : \_\_\_\_\_ ( )

27 October 2009

Class : P 5 \_\_\_\_\_



**CATHOLIC HIGH SCHOOL**

**PRIMARY FIVE**

**END-OF-YEAR EXAMINATION 2009**

**MATHEMATICS**

**PAPER 1**

**(BOOKLET B)**

15 questions

20 marks

Total Time for Booklets A and B: 50 min

**INSTRUCTIONS TO CANDIDATES**

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Show your working clearly as marks are awarded for correct working.

Write your answers in this booklet.

You are **not** allowed to use a calculator.

|           |  |
|-----------|--|
| Booklet A |  |
| Booklet B |  |
| Total     |  |

Questions 16 to 25 carry 1 mark each. Write your answers in the space provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write  
in this space

16. Express  $4\frac{3}{8}$  as a decimal, correct to 2 decimal places.

Ans: \_\_\_\_\_

17. Le Xuan arrived at the cinema to watch a movie at 2.35 p.m. and left when it ended at 5.20 p.m. How long was she at the cinema?

Ans: \_\_\_\_\_ h \_\_\_\_\_ min

18.  $\frac{5}{6}$  of Ravi's storybooks is as much as  $\frac{4}{7}$  of Cynthia's storybooks.  
Express Ravi's storybooks as a ratio of Cynthia's storybooks.

Ans: \_\_\_\_\_

19. What fraction of 3 kg is 450 g?  
Express your answer in the simplest form.

Ans: \_\_\_\_\_

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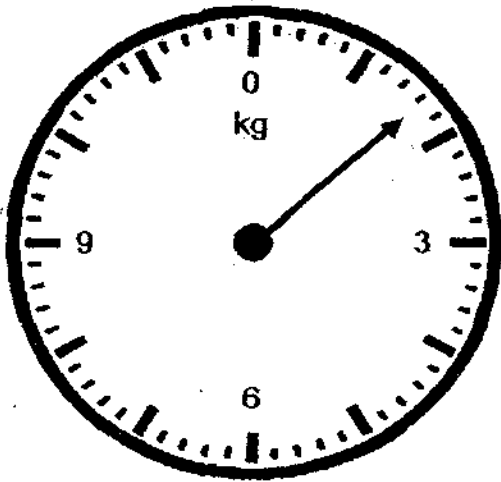
80

20. Simplify the ratio  $0.4 : 1\frac{1}{5}$ .

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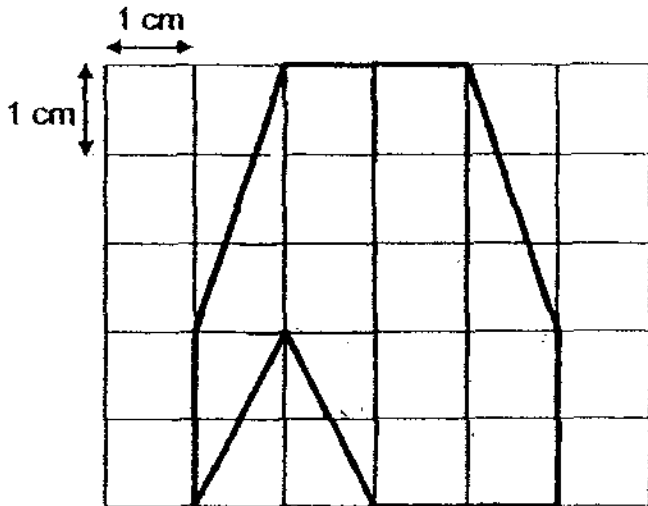
Ans: \_\_\_\_\_

21. The weight of a laptop is shown below. Express the measurement in decimal.



Ans: \_\_\_\_\_ kg

22. Find the area of the following figure.



Ans: \_\_\_\_\_  $\text{cm}^2$

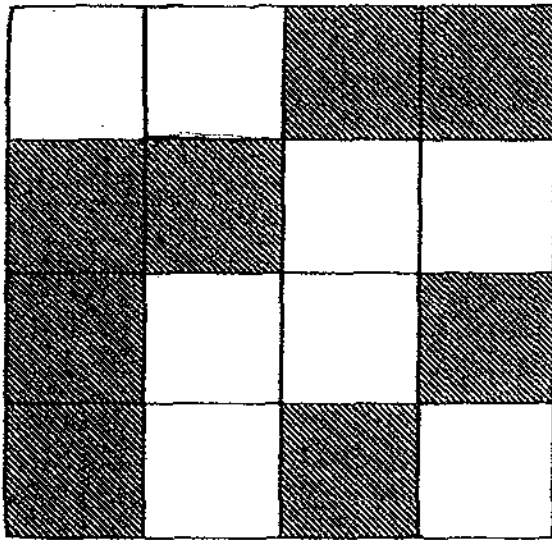
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23. What is 6 tenth less than the product of 7.5 and 8? Express the answer as a mixed number.

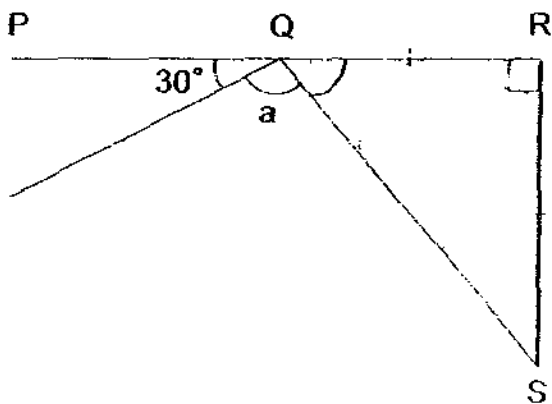
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Ans: \_\_\_\_\_

24. Shade one more square so that the figure has only one line of symmetry.




25. PQR is a straight line as shown in the figure below. Find the value of  $\angle a$ .



Ans: \_\_\_\_\_°

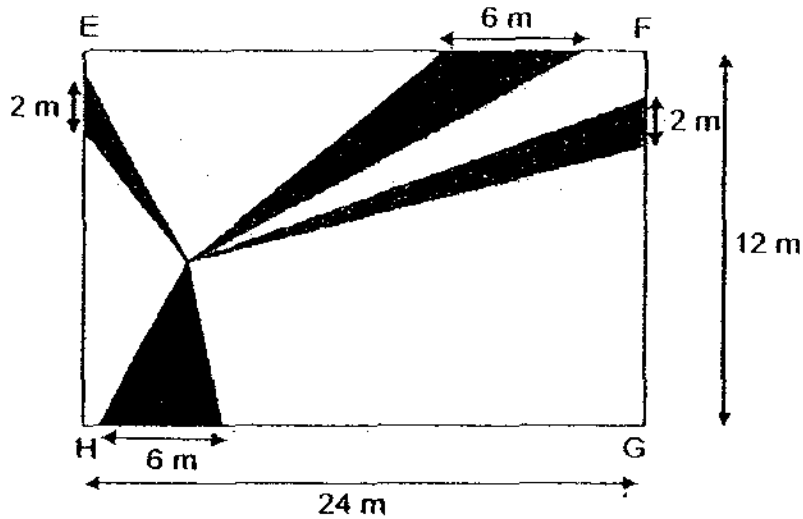
Total marks for questions 16 to 25  
(Go to the next page)

82

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

26. The figure below is made up of 4 triangles within a rectangle EFGH. Find the total shaded area.



Ans: \_\_\_\_\_ m<sup>2</sup>

27. Construct a parallelogram PQRS in which PS = 6 cm and  $\angle QPS = 115^\circ$ . SR is one side of the parallelogram.



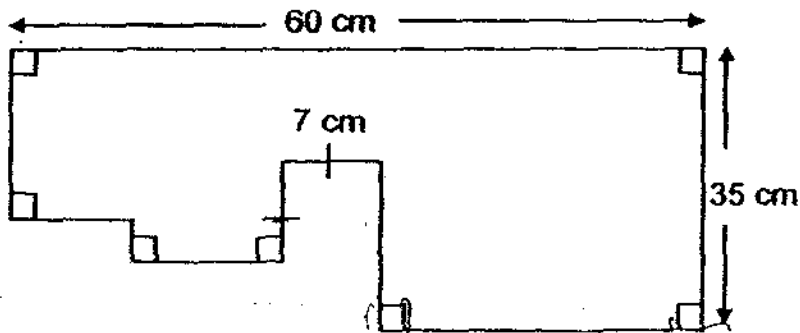

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28. Gabriel bought 6 pizzas. He cut each of them into 6 equal portions and gave 26 portions away. What fraction of the pizza was left? (Leave your answer in the simplest form.)

Ans: \_\_\_\_\_

29. Find the perimeter of the figure below.



Ans: \_\_\_\_\_ cm

30. The ratio of the number of flats to the number of condominiums in a town was 3 : 8. After more condominiums were launched, 20% of the total number of housing was flats. What was the percentage increase in the number of condominiums?

Ans: \_\_\_\_\_ %

End of Paper 1

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Name : \_\_\_\_\_ ( )

27 October 2009

Class : P 5 \_\_\_\_\_



**CATHOLIC HIGH SCHOOL**

**PRIMARY FIVE**

**END-OF-YEAR EXAMINATION 2009**

**MATHEMATICS**

**PAPER 2**

Total Time: 1 h 40 min

Parent's Signature: \_\_\_\_\_

|                              |            |
|------------------------------|------------|
| <b>Paper 1<br/>Booklet A</b> | <b>20</b>  |
| <b>Paper 1<br/>Booklet B</b> | <b>20</b>  |
| <b>Paper 2</b>               | <b>60</b>  |
| <b>Total<br/>Marks</b>       | <b>100</b> |

**INSTRUCTIONS TO CANDIDATES**

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Write your answers in this booklet.

You are allowed to use a calculator.

Do not write  
in this space

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

1. The ratio of David's books to Tom's books is 2 : 7. If David has 40 books less than Tom, how many books does Tom have?

Ans: \_\_\_\_\_

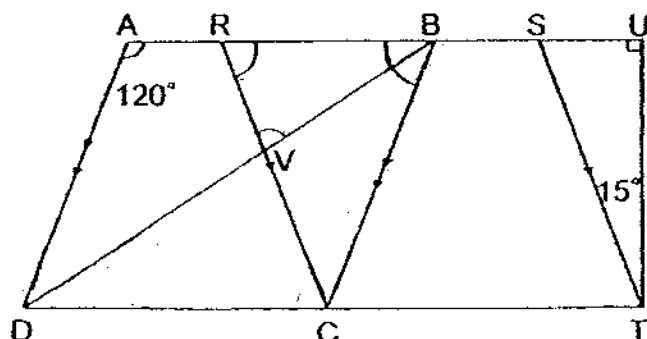
2. The table below shows the number of hours each pupil spends on the computer in a day.

|                  |   |    |    |    |   |   |
|------------------|---|----|----|----|---|---|
| Number of hours  | 0 | 1  | 2  | 3  | 4 | 5 |
| Number of pupils | 5 | 15 | 11 | 13 | 6 | 0 |

What is the average number of hours each pupil spend on the computer?

Ans: \_\_\_\_\_

3. ABCD and RSTC are rhombuses. If  $\angle DAR = 120^\circ$  and  $\angle STU = 15^\circ$ , find  $\angle RVB$ .

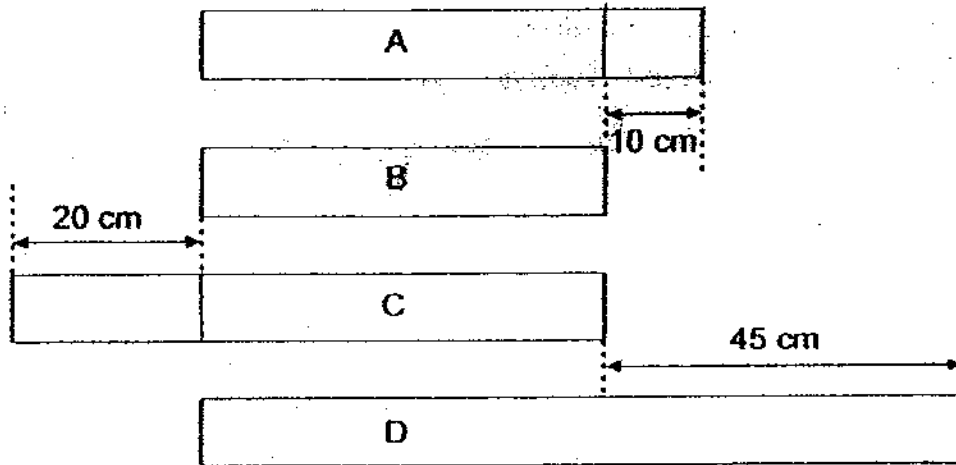


Ans: \_\_\_\_\_

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86

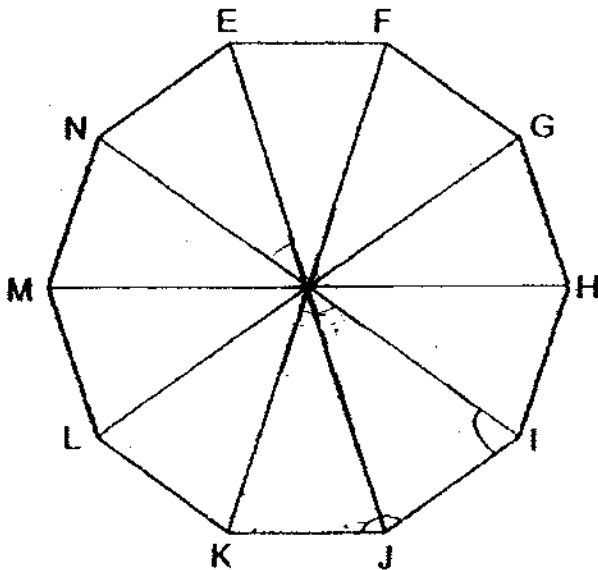
4. The diagram shows four ribbons A, B, C and D.



Given that the total length of A, B, C and D is 235 cm, find the ratio of the length of A : C.

Ans: \_\_\_\_\_

5. The figure is made up of ten similar isosceles triangles. Find  $\angle IJK$ .



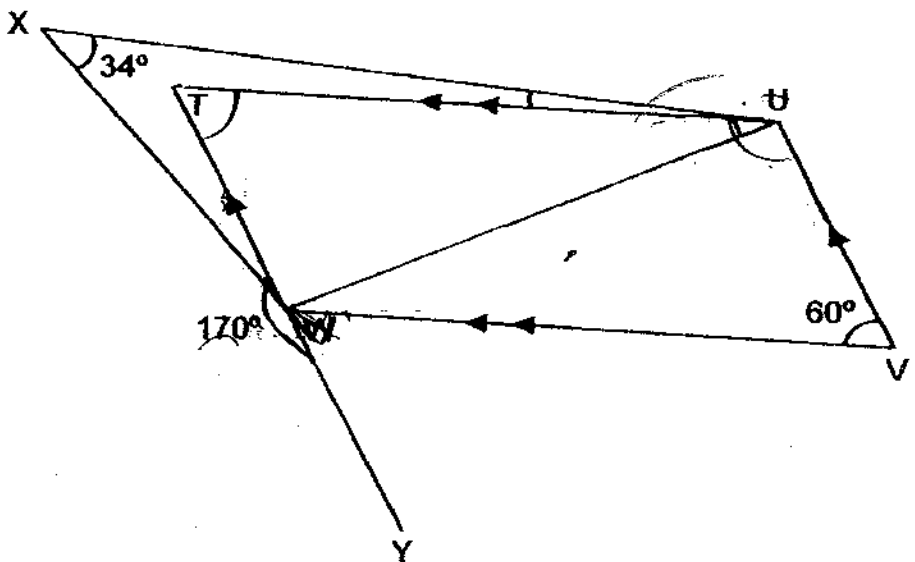
Ans: \_\_\_\_\_°

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For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

6. In the figure, not drawn to scale, TUVW is a parallelogram. TWY is a straight line. Find  $\angle XUT$ .



Ans: \_\_\_\_\_ [3]

7. A chair and 2 tables cost \$720. If a chair costs \$270 less than the table, what is the cost of a table?

Ans: \_\_\_\_\_ [3]

(Go to the next page)

88

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8. Daniel had some stamps. 40% of them are local and the rest are foreign stamps. He gave away 20% of the local stamps and  $\frac{1}{3}$  of the foreign stamps. What percentage of the stamps was left?

Ans: \_\_\_\_\_ [3]

9. Samuel spent \$36 on some stationery and 25% of his remaining money on some toys. If he had 50% of his total money left, how much did he have at first?

Ans: \_\_\_\_\_ [3]

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10. A class was fixing a puzzle of their photos. In the first hour, the ratio of the number of fixed pieces to unfixed pieces is 1 : 5. In the next hour, they fixed another 15 pieces of the puzzle. Finally, the number of fixed pieces became 60% of the unfixed pieces. How many pieces were there in the puzzle?

Ans: \_\_\_\_\_ [3]

11. Lucas bought 15 bowls of ice cream at \$2.50 each. If each bowl of ice cream costs 50 cents less, how many more bowls of ice cream can he buy with the same amount of money?

Ans : \_\_\_\_\_ [3]

(Go to the next page)

90

12. David spent  $\frac{1}{6}$  of his money and an additional \$5 on a CD. He then spent  $\frac{2}{5}$  of his remaining money and an additional \$12 on some magazines. Given that he was left with \$24, how much money did he have at first?

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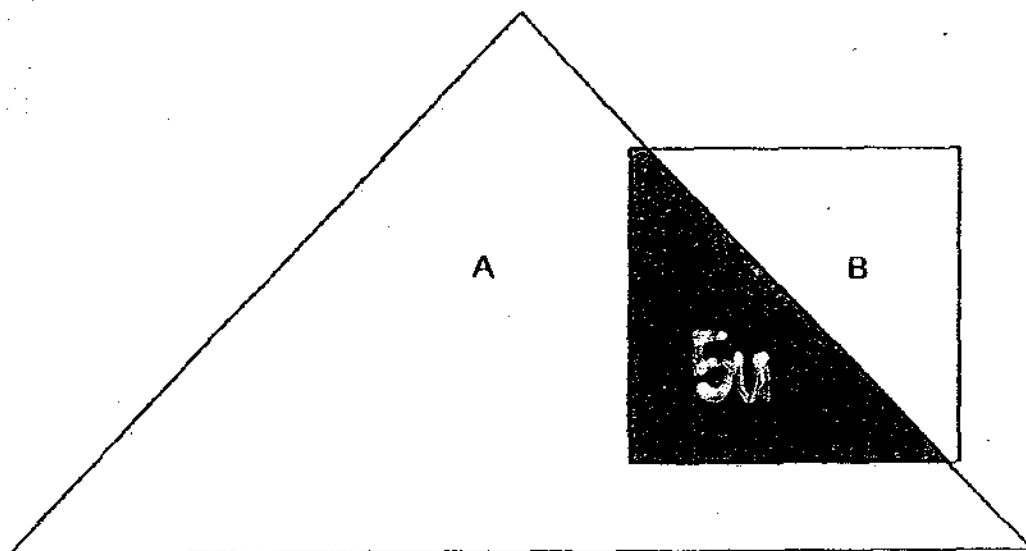
Ans: \_\_\_\_\_ [4]

(Go to the next page)

13. The figure below is made up of a square and a triangle.  
The difference between the unshaded area A and unshaded area B is  $8000 \text{ cm}^2$ .

Given that the area of the square is  $\frac{4}{9}$  of the area of the triangle, find the length of the square.

Do not write  
in this space



Ans: \_\_\_\_\_ [4]

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92

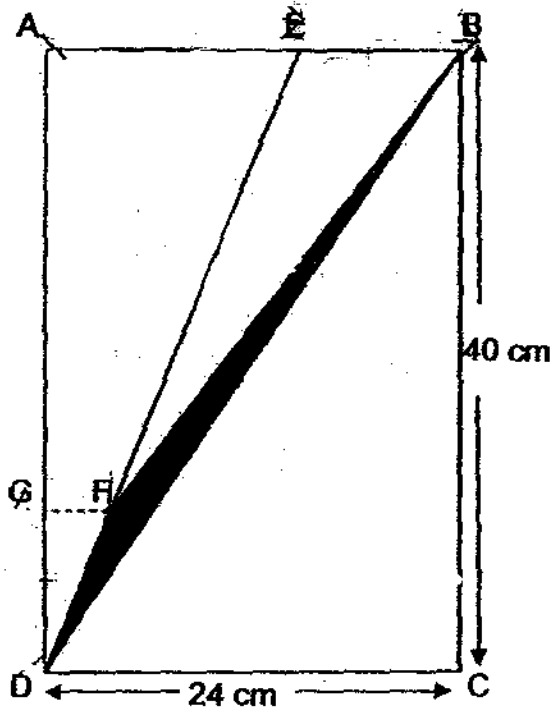
14. The figure is made up of a rectangle ABCD.

EFD is a straight line and  $EB = GD$ .

The ratio of AE to AB is 5 : 8.

Find the shaded area.

Do not write  
in this space



Ans: \_\_\_\_\_ [4]



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in this space

15. Jude had 20% more money than Ken. Jude gave 40% of his money to Ken.  
Ken then gave 50% of his money to Jude.  
In the end, Ken had \$216 less than Jude. How much did Jude have at first?

Ans: \_\_\_\_\_ [5]

(Go to the next page)

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16. A piggy bank had some 20-cent and 50-cent coins.

$\frac{2}{3}$  of the number of 20-cent coins is equal to  $\frac{5}{6}$  of the number of 50-cent coins.

If there is a total of 162 coins, find the total value of all the coins in the piggy bank.

Ans: \_\_\_\_\_ [5]

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17. The number of pupils in the hall is twice the number of pupils in the canteen.  
 $\frac{3}{4}$  of the pupils in the hall were boys and  $\frac{3}{5}$  of the pupils in the canteen  
were girls.

If there were 6 more girls in the canteen than in the hall, find the number of  
pupils in the hall.

Ans: \_\_\_\_\_ [5]

(Go to the next page)

18. Mrs Lim bought some bowls and plates. If she buys another 5 bowls, there are 60% as many bowls as plates. If she buys another 9 plates, there will be thrice as many plates as bowls. How many bowls did she buy?

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Ans: \_\_\_\_\_ [5]

End of Paper 2

# ANSWER SHEET

**EXAM PAPER 2009**

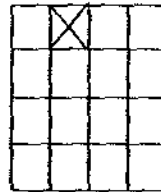
**SCHOOL : CATHOLIC HIGH PRIMARY**  
**SUBJECT : PRIMARY 5 MATHEMATICS**

**TERM : SA2**

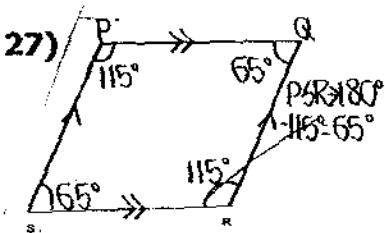
| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| 3  | 2  | 4  | 3  | 3  | 1  | 1  | 1  | 2  | 2   | 3   | 3   | 4   | 4   | 2   |

16) 4.38      17) 2h 45 min      18) 24:35      19) 3/20      20) 1:3

21) 1.6kg      22) 15cm<sup>2</sup>      23) 59 2/5      24)



25) 105°      26) 60m<sup>2</sup>



28) 5/18      29) 204cm

30) 50%

**Paper 2**

1) 56      2) 2      3) 75°      4) 5:6      5) 144      6) 16°

7) 330      8) 72%      9) \$108      10) 72      11) 3      12) \$78

13) 80cm      14) 40.5cm<sup>2</sup>      15) \$360      16) \$54      17) 120

18) 13